

ABSTRACT OF DISCLOSURE

A method for a method including the steps of:
irradiating ultra short pulse laser rays having a pulse
width not more than 30 pico-seconds to at least one of a
core section and a clad section of an optical wave-guide
device to modify a refractive index of the core section and
the clad section.

Year	Population	Area (sq. miles)	Population per square mile
1850	1,000,000	100,000	10
1860	2,000,000	100,000	20
1870	3,000,000	100,000	30
1880	4,000,000	100,000	40
1890	5,000,000	100,000	50
1900	6,000,000	100,000	60
1910	7,000,000	100,000	70
1920	8,000,000	100,000	80
1930	9,000,000	100,000	90
1940	10,000,000	100,000	100
1950	11,000,000	100,000	110
1960	12,000,000	100,000	120
1970	13,000,000	100,000	130
1980	14,000,000	100,000	140
1990	15,000,000	100,000	150
2000	16,000,000	100,000	160
2010	17,000,000	100,000	170
2020	18,000,000	100,000	180